

# Converting Colors - WCAG Matrix

## Web Content Accessibility Guidelines (WCAG) 2.0 - Color Matrix.

|             | Hex(A5C0FF)                         | Hex(8CAFFF)                        | Hex(729DFF)                        | Hex(598AFF)                        | Hex(3F7AFF)                        | Hex(2669FF)                        | Hex(0C56FF)                         | Hex(004EFF)                         |
|-------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| Hex(A5C0FF) |                                     | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.45<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 2.55<br>Failed <sup>5</sup> | Ratio: 3.06<br>AA 18pt <sup>2</sup> | Ratio: 3.28<br>AA 18pt <sup>2</sup> |
| Hex(8CAFFF) | Ratio: 1.20<br>Failed <sup>5</sup>  |                                    | Ratio: 1.21<br>Failed <sup>5</sup> | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 2.56<br>Failed <sup>5</sup>  | Ratio: 2.74<br>Failed <sup>5</sup>  |
| Hex(729DFF) | Ratio: 1.45<br>Failed <sup>5</sup>  | Ratio: 1.21<br>Failed <sup>5</sup> |                                    | Ratio: 1.23<br>Failed <sup>5</sup> | Ratio: 1.47<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 2.11<br>Failed <sup>5</sup>  | Ratio: 2.26<br>Failed <sup>5</sup>  |
| Hex(598AFF) | Ratio: 1.78<br>Failed <sup>5</sup>  | Ratio: 1.49<br>Failed <sup>5</sup> | Ratio: 1.23<br>Failed <sup>5</sup> |                                    | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup>  | Ratio: 1.84<br>Failed <sup>5</sup>  |
| Hex(3F7AFF) | Ratio: 2.13<br>Failed <sup>5</sup>  | Ratio: 1.78<br>Failed <sup>5</sup> | Ratio: 1.47<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> |                                    | Ratio: 1.20<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup>  | Ratio: 1.54<br>Failed <sup>5</sup>  |
| Hex(2669FF) | Ratio: 2.55<br>Failed <sup>5</sup>  | Ratio: 2.13<br>Failed <sup>5</sup> | Ratio: 1.76<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> |                                    | Ratio: 1.20<br>Failed <sup>5</sup>  | Ratio: 1.29<br>Failed <sup>5</sup>  |
| Hex(0C56FF) | Ratio: 3.06<br>AA 18pt <sup>2</sup> | Ratio: 2.56<br>Failed <sup>5</sup> | Ratio: 2.11<br>Failed <sup>5</sup> | Ratio: 1.72<br>Failed <sup>5</sup> | Ratio: 1.43<br>Failed <sup>5</sup> | Ratio: 1.20<br>Failed <sup>5</sup> |                                     | Ratio: 1.07<br>Failed <sup>5</sup>  |
| Hex(004EFF) | Ratio: 3.28<br>AA 18pt <sup>2</sup> | Ratio: 2.74<br>Failed <sup>5</sup> | Ratio: 2.26<br>Failed <sup>5</sup> | Ratio: 1.84<br>Failed <sup>5</sup> | Ratio: 1.54<br>Failed <sup>5</sup> | Ratio: 1.29<br>Failed <sup>5</sup> | Ratio: 1.07<br>Failed <sup>5</sup>  |                                     |

Details can be found at <https://www.w3.org/TR/WCAG20/>.

<sup>1</sup> AA

AA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>2</sup> AA 18pt

AA level for large text above 18pt.

<sup>3</sup> AAA

AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for any text size.

<sup>4</sup> AAA 18pt

AAA level for large text above 18pt.

<sup>5</sup> Failed

Fails to comply with the Web Content Accessibility Guidelines (WCAG) 2.0.

<sup>6</sup> Passed

Passes the AAA level of the Web Content Accessibility Guidelines (WCAG) 2.0 for all text sizes.

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